[INCH-POUND]
A–A–59789/15
10 May 2008

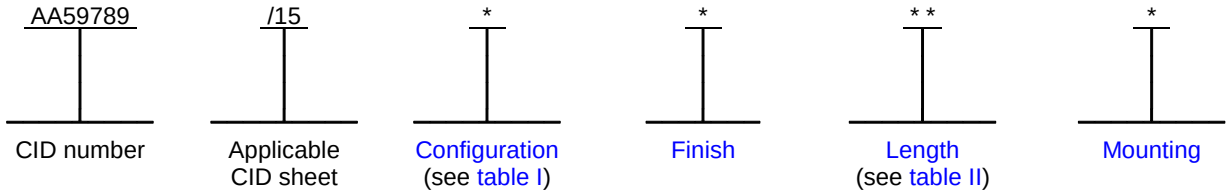
COMMERCIAL ITEM DESCRIPTION
SPECIFICATION SHEET

HOLDER, ELECTRICAL CARD, WEDGE RETAINERS, 5 PIECE, FOR COLD PLATE APPLICATIONS, .365 X .375 INCH (9.27 x 9.53 mm) BODY SIZE, WITH CAPTIVE REAR WEDGE, SCREW ACTUATED

The General Services Administration has authorized the use of this commercial item description for all federal agencies.

The complete requirements for procuring 5 piece card holders described herein shall consist of this document and the latest issue in effect of A–A–59789.

CLASSIFICATION/PART IDENTIFICATION NUMBER (PIN). This commercial item description (CID) specification sheet uses a classification system which is included in the Part Identification Number (PIN) as shown in the following example (see NOTES).



Example: AA59789/15EH50V is the PIN for a hard black anodized, 4.8 inch (122 mm) long card holder. The card holder also features three tapped for use with 4-40 fasteners.

SALIENT CHARACTERISTICS.

Performance. Card holders shall hold the circuit card firmly in place providing high resistance to shock and vibration while providing maximum thermal transfer.

Interface and physical dimensions. The card holders supplied to this CID specification sheet shall be as specified herein and meet the general requirements specified in CID A–A–59789.

Material. Unless otherwise specified herein, the card holder materials shall be as specified in A–A–59789.

Actuating screw hex drive socket. The across flats dimension for hex drive socket shall be .140 inch (3.60 mm) for mounting options “R” and “V” and .118 inch (3.0 mm) for mounting option “Y”.

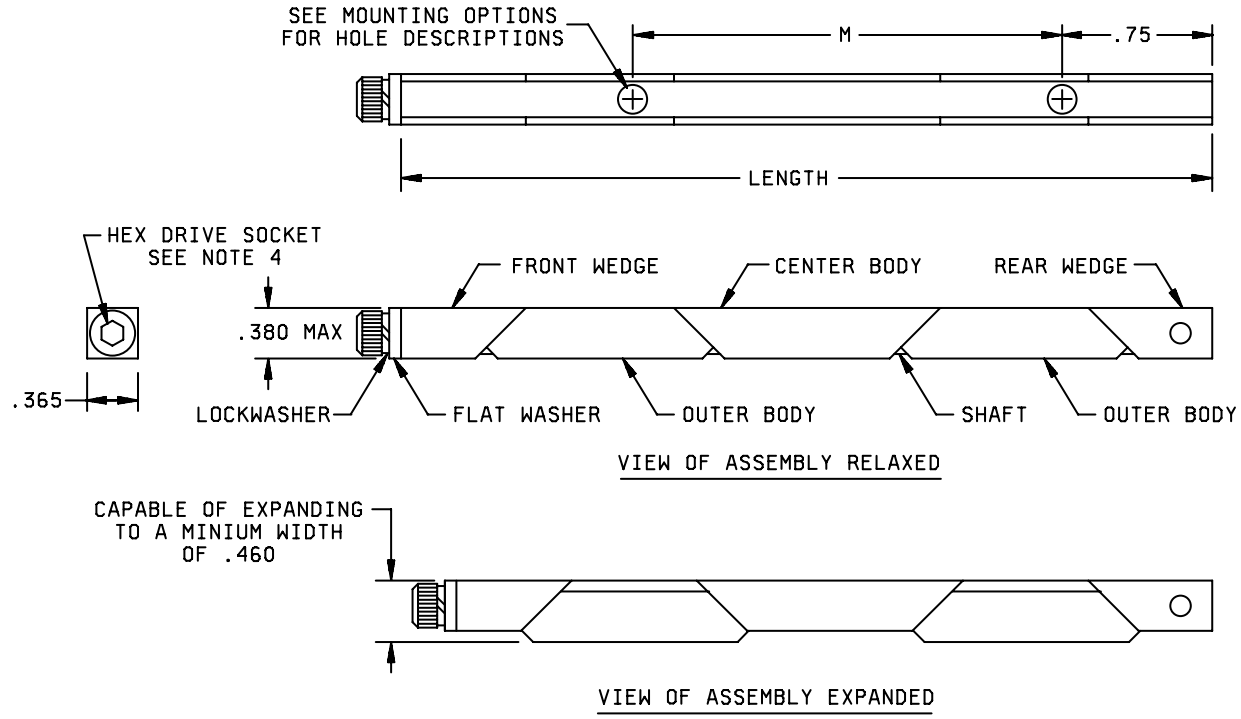
Cold plate slot width. The recommended cold plate slot width to accommodate the circuit card assembly with attached card holder is .425 inch (10.80 mm) plus the thickness of the printed board of the circuit card assembly (see A–A–59789).

Installation torque. The recommended nominal installation torque is as follows: 20 inch-pounds (2.3 N-m) for assemblies of configuration “C” and “E” and 23 inch-pounds (2.6 N-m) for assemblies of configurations “L” and “D”.

Configuration. The configuration of card holders shall be as specified in table I. The details of a particular configuration consist of those on figure 1, and may include those on figures 2 and 3.

TABLE I. Configurations.

Configuration	Applicable figures	Hardware options
C	1	No added hardware
L	1 and 2	Screw self-locking element
E	1 and 3	Additional mounting hole
D	1, 2, and 3	Screw self-locking element and additional mounting hole



Inches	mm	Inches	mm	Inches	mm	Inches	mm
.365	9.27	.380	9.65	.460	11.68	.75	19.05

NOTES:
1. Dimensions are in inches. Millimeters are given for information only.
2. Unless otherwise specified, tolerances are for ±.02 inch (0.51 mm) for two place decimals and ±.010 inch (0.25 mm) for three place decimals.
3. Tolerance for the mounting hole spacing is ±.005 inch (0.13 mm).
4. The across flats dimension for actuating screw hex drive socket shall be .140 inch (3.60 mm) or .118 (3.0 mm) for the corresponding mounting option (see hex drive socket details).

FIGURE 1. Relaxed and expanded dimensions.

Finish. The wedge body finish designator shall be as specified in A–A–59789. The finishes available for this CID specification sheet are as follows: “B” (black anodize), “E” (electroless nickel), or “H” (hard black anodize).

Length, expanded, and relaxed dimensions. The length designator shall be as specified in A–A–59789. The lengths available for this CID specification sheet are listed in table II. The length, expanded, and relaxed dimensions shall be as specified on figure 1.

TABLE II. Additional card holder dimensions (see figure 1). 1/

PIN length designator	Dimension “LENGTH” ±.02 (0.5 mm)	Dimension “M” ±.005 (0.13 mm)	Dimension “M/2” ±.005 (0.13 mm)
28	2.8 (71 mm)	.65 (16.5 mm)	.325 (8.26 mm)
38	3.8 (97 mm)	1.65 (41.9 mm)	.825 (20.96 mm)
48	4.8 (122 mm)	2.65 (67.3 mm)	1.325 (33.66 mm)

1/ Dimensions are in inches. Millimeters, in parenthesis, are given for information only.

Mounting. The mounting designators shall be as specified in A–A–59789. Mounting options available for this CID specification sheet are as follows: “R” (rivet mount holes with counterbore and countersink), “V” (tapped 4-40 holes), or “M” (tapped metric M3 x 0.5 holes). See figure 1 for mounting hole spacing requirements.

Rivet mount holes. The holes used for rivet mounting shall be .134 to .139 inch (3.40 to 3.53 mm) diameter through holes, countersunk 100 degrees by .150 inch (3.81 mm) deep.

Rivets. This card holder uses rivet style B as specified in A–A–59789 when rivet mounting is used.

Configuration hardware options. Card holders can have the following hardware options: screw self-locking element, an additional mounting hole, or a combination of both. See table I for the correct PIN configuration identifier.

Screw self-locking element (see figure 2). The use of a screw self-locking element will provide prevailing torque for resistance to loosening from shock vibration. Card holders requiring a screw self-locking element shall include configuration identifier “L” in the PIN (see table I).

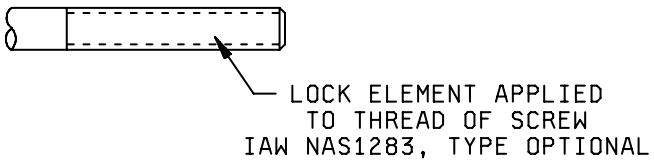


FIGURE 2. Screw self-locking element details.

Additional mounting holes (see figure 3). Card holders requiring an additional mounting hole shall include configuration identifier “E” in the PIN (see table I).

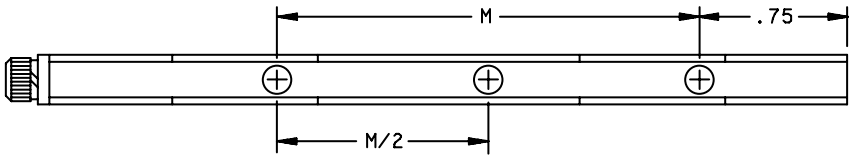


FIGURE 3. Additional mounting hole details.

Screw self-locking element and additional mounting hole. Card holders requiring a screw self-locking element and additional mounting hole options shall include configuration identifier “D” in the PIN (see table I).

NOTES.

PIN. The PIN should be used for Government purposes to buy commercial products to this CID specification sheet. See the classification section for PIN format example.

Source of documents.

Commercial Item Description

A–A–59789 – Holder, Electrical Card, Wedge Retainers, 5 Piece, For Cold Plate Applications, General Requirements For.

(Copies of these documents are available online at http://assist.daps.dla.mil/quicksearch/ or http://assist.daps.dla.mil/ or from the Standardization Document Order Desk, 700 Robbins Avenue, Building 4D, Philadelphia, PA 19111–5094.)

Other Publications

AEROSPACE INDUSTRIES ASSOCIATION (AIA)

AIA/NAS 1283 – Fasteners, Male Threaded, Self–locking.

(Application for copies should be addressed to the Aerospace Industries Association, 1250 Eye Street, NW, Suite 1200, Washington, DC 20005–3924 or at URL: http://www.aia-aerospace.org.)

Ordering data. Ordering data is as specified in A–A–59789.

Commercial products. As part of the market analysis and research effort, this CID specification sheet was coordinated with the following manufacturers of commercial products. At the time of CID specification sheet preparation and coordination, these manufacturers were known to have commercial products that would meet the requirements of this CID specification sheet. (NOTE: This information should not be considered as a list of approved manufacturers or be used to restrict procurement to only the manufacturers shown.)

Manufacturer CAGE	Manufacturer name and address	Manufacturer contact information
52094	Calmark Corporation 4915 Walnut Grove Avenue San Gabriel, CA 91776–2099	Telephone: (626) 287–0451 Facsimile: (626) 287–7350 E-mail: sales@calmark.com URL: www.calmark.com

Part number supersession data. These CID specification sheet PINs supersede the following manufacturer's part numbers as shown in table III. The CID PINs listed in table III are only for length designator "50". See table IV for CID PIN construction using other available lengths for this CID specification sheet. This information is being provided to assist in reducing proliferation in the Government inventory system.

TABLE III. Commercial part number supersession data.

PIN designator AA59789/15	Vendor similar designator or type part number 1/ CAGE 52094	PIN designator AA59789/15	Vendor similar designator or type part number 1/ CAGE 52094
CB50M	A280–4.80TM3	LB50M	A280–4.80TM3L
CB50R	A280–4.80H	LB50R	A280–4.80HL
CB50V	A280–4.80T4	LB50V	A280–4.80T4L
EB50M	A280–4.80ETM3	DB50M	A280–4.80ETM3L
EB50R	A280–4.80EH	DB50R	A280–4.80EHL
EB50V	A280–4.80ET4	DB50V	A280–4.80ET4L
CE50M	EN280–4.80TM3	LE50M	EN280–4.80TM3L
CE50R	EN280–4.80H	LE50R	EN280–4.80HL
CE50V	EN280–4.80T4	LE50V	EN280–4.80T4L
EE50M	EN280–4.80ETM3	DE50M	EN280–4.80ETM3L
EE50R	EN280–4.80EH	DE50R	EN280–4.80EHL
EE50V	EN280–4.80ET4	DE50V	EN280–4.80ET4L
CH50M	HA280–4.80TM3	LH50M	HA280–4.80TM3L
CH50R	HA280–4.80H	LH50R	HA280–4.80HL
CH50V	HA280–4.80T4	LH50V	HA280–4.80T4L
EH50M	HA280–4.80ETM3	DH50M	HA280–4.80ETM3L
EH50R	HA280–4.80EH	DH50R	HA280–4.80EHL
EH50V	HA280–4.80ET4	DH50V	HA280–4.80ET4L

1/ The manufacturer's part number shall not be used for procurement to the requirements of this CID specification sheet. At the time of preparation of this CID specification sheet, the aforementioned commercial products were reviewed and could be replaced by the CID PIN shown. For actual part marking requirements, see the marking paragraph in A–A–59789.

TABLE IV. Example of PIN with available length designators.

PIN designator AA59789/15	Vendor similar designator or type part number 1/ 2/ CAGE 52094
EH30V	HA280–2.80ET4
EH40V	HA280–3.80ET4
EH50V	HA280–4.80ET4

1/ The manufacturer's part number shall not be used for procurement to the requirements of this CID specification sheet. At the time of preparation of this CID specification sheet, the aforementioned commercial products were reviewed and could be replaced by the CID PIN shown. For actual part marking requirements, see the marking paragraph in A–A–59789.

2/ Other lengths are available on request.

MILITARY INTERESTS:

Custodians:
Army – CR
Navy – EC
Air Force – 11
DLA – CC

Review Activity:
Air Force – 99

CIVIL AGENCY COORDINATING ACTIVITY:

GSA – FSS

Preparing Activity:
DLA – CC

Project 5998–2007–030

NOTE: The activities listed above were interested in this document as of the date of this document. Since organizations and responsibilities can change, you should verify the currency of the information above using the ASSIST Online database at http://assist.daps.dla.mil.